

Attachment to Amendment Under 37 C.F.R. § 1.111 dated November 4, 2002

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Page 6, Paragraph Beginning at Line 8

Test liquid

In all cases the test liquid was synthetic urine according to the following recipe: 0,66 g/l MgSO_4 , 4,47 g/l KCl, 7,60 g/l NaCl, 18,00 g/l NH_2CONH_2 (urea), 3,54 g/l KH_2PO_4 , 0,754 g/l Na_2HPO_4 , 1 ml/l of a 0.1 % solution of [Triton X-100] TRITON X-100, which is a surfactant sold by [Aldrich] ALDRICH. The substances were dissolved in deionized water.

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Absorption rate

The liquid acquisition capacity was measured according to the below described measuring apparatus for determining the absorption rate of a sample. The measuring apparatus is shown in Fig. 1 and comprises a stand 10 with a holder 11 for a glass filter plate (porosity 1, supplier Werner-Glas AB, Stockholm) and holder [3] 13 for a thickness gauge 14. The glass filter plate 12 is provided with a liquid (synthetic urine) from a glass bowl 15 placed on a scale 16. The holder 11 for the glass filter plate 12 is vertically adjustable, which makes the hydrostatic pressure adjustable. The liquid level in the bowl 15 should be only 2 cm below the level of the glass filter plate 12. With this hydrostatic pressure pores up to $250\ \mu\text{m}$ will be filled with liquid if the contact angle between the sample, which is placed on the glass filter plate 12, and the liquid is supposed to be 70° . The measuring signals from the scale and the thickness gauge are transmitted to a computer with 15 datum/s at measuring periods of up to 60 seconds. At longer measuring periods the signal speed becomes lower. The measurement is started automatically by means of a contact when the

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sample reaches the glass filter plate 12. The measurement result is printed by a printer as function of time.

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<u>CEKOL</u> [Cekol] 50000	Carboxy methyl cellulose from Metsä Chemicals. Highly viscous quality with a substitution degree of about 0.8.
<u>CELPOL RX</u> [Celpol RX]	Carboxy methyl cellulose from Metsä Chemicals. Highly viscous quality with a substitution degree of about 1.2.
Softwood sulphate pulp	SCA Graphic Paper, Sundsvall, Sweden.
Cyanuric chloride	Merck-Schuchardt. Degree of purity: For synthesis.
<u>BEROL</u> [Berol] 048	Nonionic surfactant from Akzo
<u>BEROCELL</u> [Berocell] 451	Anionic surfactant from Akzo Nobel.
Sodium hydroxide	EKA Nobel. Degree of purity: min 97%.
Methyl ketone	E. Merck. Degree of purity: For synthesis.

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Example 1

A liquid foam was produced by vigorous mixing with an electric beater of the following mixture: 220 g of a 3% solution of [Celpol RX] CELPOL RX in water, 2.82 g bleached softwood sulphate pulp, 80 g water, 0.13 g NaOH, 1.0 g [Berocell] BEROCELL 451 and 1.0 g [Berol] BEROL 048. The foam was cooled to a temperature of about 2°C after which 0.264 g of cyanuric chloride dissolved in 5 g methyl ethyl ketone was added to the foam mixture.

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Example 2

Two liquid foams were prepared by vigorous mixing of the two following mixtures: 1.110 g of a 3% solution of [Celpol RX] CELPOL RX in water, 1.41 g bleached softwood sulphate pulp, [40gwater] 40 g water, 0.057 g NAOH, 0.5 g [Berocell] BEROCELL 451 and 0.5g [Berol] BEROL 048.

2.110 g of a 3% solution of [Cekol] CEKOL 50000 in water, 1.41 g bleached softwood sulphate pulp, 40g water, 0.091 g NaOH, 0.5 g [Berocell] BEROCELL 451 and 0.5g [Berol] BEROL 048.

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Example 3

Two liquid foams were manufactured by vigorous mixing of the following mixtures: 1.110 g of a 3% solution of [Celpol RX] CELPOL RX in water, 1.41 g bleached softwood sulphate pulp, 40g water, 0.057 g NaOH, 0.5 g [Berocell] BEROCELL 451 and 0.5g [Berol] BEROL 048.

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2.110 g of a 3% solution of [Cekol] CEKOL 50000 in water, 1.41 g bleached softwood sulphate pulp, 40g water, 0.091 g NaOH, 0.5 g [Berocell] BEROCELL 451 and 0.5g [Berol] BEROL 048. Both foams were cooled to a temperature of about 2°C after which 0.264g cyanuric chloride dissolved in 10g methyl ethyl ketone was added to the first mentioned foam mixture. After vigorous mixing for about 3 minutes the foams were mixed carefully during about 2 minutes.

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Marked-up Claims 1-7

1. (Amended) A liquid absorbing material comprising an open-cell polymeric foam material, the foam material being suitable for use as an absorbent structure in absorbent articles [such as diapers, pant diapers, sanitary napkins, incontinence guards, wound dressings, bed protections etc.], [characterized in that] the foam material having [has] an absorption rate at wetting of at least 0.4 ml/s for a round sample having [the diameter] a 50 mm diameter, a liquid distribution capacity at an inclination of 30° of at least 15 g/g and a liquid storage capacity of at least 9% measured through [CRC (] centrifuge retention capacity[)], [at which the test liquid in all cases is] for synthetic urine test liquid.
2. (Amended) A liquid absorbent foam material as claimed in claim 1, wherein [characterized in that its] the absorption [capacity] rate at wetting is at least 0.5 ml/s, [its] the liquid distribution capacity at an inclination of 30° is at least 16 g/g, and [its] the liquid storage capacity measured through [CRC] centrifuge retention capacity is at least 11 %.
3. (Twice Amended) A liquid absorbent foam material as claimed in claim 1, [characterized in that the] having a first distribution of pores with a diameter less than 3 um for producing a gel liquid absorption determined as the total liquid amount in pores below 3 μ m according to pore volume distribution [(PVD)] measurements[, is] of at least 4 g/g [and preferably at least 5 g/g] synthetic urine, and [the]

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a second distribution of pores with a diameter between 3 and 100 μ m for producing
capillary liquid absorption determined as the total liquid amount in pores between 3-100 μ m
according to [PVD] pore volume distribution measurement[, is] of at least 8 ml/g[,
preferably at least 10 ml/g].

4. (Twice Amended) A liquid, absorbent foam material as claimed in claim 1, wherein
[characterized in that] the foam material [in its pore system] contains fibers in its pore
system.

5. (Twice Amended) An absorbent structure in an absorbent article [such as a diaper,
pant diaper, sanitary napkin, incontinence guard, wound dressing, bed protection etc.],
[characterized in that] wherein the absorbent structure [comprises] comprising a liquid
absorbent open-cell foam material according to claim 1.

6. (Amended) An absorbent structure as claimed in claim 5, wherein [characterized in
that] said [foam material] absorbent structure is comprised [in the absorbent structure as the
sole component] solely of said foam material.

7. (Twice Amended) An absorbent structure as claimed in claim 5, wherein
[characterized in that] the foam material has a three-dimensional anatomic shape.